COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

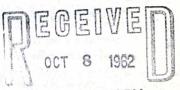
SURVEILLANCE

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE



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PREFACE

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to: Chief, Poliomyelitis Surveillance Unit, Communicable Disease Center, Atlanta 22, Georgia.

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SUMMARY

A total of 72 cases of poliomyelitis, 54 paralytic, were reported for the two weeks period which ended on September 29, 1962. The comparable two weeks in 1961 showed a total of 143 cases, 77 paralytic. The continued low incidence of the disease in 1962 is reflected in both cumulative and seasonal (six weeks) totals.

Of the 21 States noting cases during these two weeks, Texas has accounted for the largest number with 10 cases. A report dealing with the 1962 experience with poliomyelitis in this State is presented in Section 2.

Section 3 presents an analysis by age and vaccination status of the 1962 cases reported to the Poliomyelitis Surveillance Unit on individual case forms. In Section 4, surveillance data on cases occurring within 30 days of vaccine administration are listed.

in 1962 and in the past four

TASY Site LumbO

The experience of the viral diagnostic laboratories of Yale University and the Baylor University Medical Center in Dallas with non-poliomyelitis enteroviruses in 1962 are presented in Section 5.

Appended is the news release which followed a meeting of the Surgeon General's special oral polio vaccine advisory committee on October 2, 1962.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

The two-week period ending on September 29, brought reports of 72 cases of poliomyelitis, 54 paralytic. The cases were from 21 States. During the previous two weeks 59 cases, 46 paralytic, were noted. The totals remain well below the comparable two week period in 1961 which accounted for 143 cases, 77 paralytic.

Twenty-one States reported cases during these two weeks. The largest number of cases have stemmed from Texas with 10 cases, Alabama with 8 cases, and Indiana and Illinois with 6 cases each. No case concentrations have been noted in any of these States, except in Alabama where a significant number of Type I cases have occurred in and around Mobile. (See PSU Report No. 267, September 7, 1962) Because Texas has accounted for 219 of the 604 cases of poliomyelitis reported thus far this year, a summary report of that State's 1962 experience is presented in Section 2.

The 1962 incidence remains well below the totals reported for any previous year. This is illustrated in the tabulations below showing total cumulative and six weeks incidence for 1962 and the preceding 4 years.

Polic	(Cumulated	Weekly)	through	39th Week	for Past	Five Years
		1962	<u>1961</u>	<u>1960</u>	1959	1958
P	aralytic	471	594	1573	4055	1860
T	otal	604	923	2290	6337	3818

SUMMARY

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Section

Six-Week Totals (34th thru 39th Week) for Past Five Years bestored as a policy of 12 cases of policy electron A

Or the 21 States noting cases during these two weeks, Texas has

29, 1962. The comparable	1962	1961	1960	1959	1958
paralytic. The continued	casee, 77	CAI la	sed a total	moria 130.	aks an I
bus over Paralytic of at	170	272	ni 699 asib	1854	= 1025 c
			totale.	weeks).	xta) is
Total	214	441	1066	2936	2127

accounted for the largest number with 10 cases. A report dealing with the 1962 experience with polyemyelitis in this State is progress.

A. Texas

Complete Year

With 10 cases of poliomyelitis including 5 paralytic reported from the two-week period ending September 29, this State's current totals stand at 219 cases of which 167 are paralytic. The Texas experience in 1962 and in the past four years is shown below. The total number of paralytic cases through the 39th week markedly exceeds the number of paralytic cases in 1960 and 1961. (Texas to date has accounted for 35 percent of the nation's 471 paralytic cases this year.)

10 gminess Paralytic Policy in Texas for Past; Four Years | 10 cars | 10

37

The two-week period ending on September 29, brought reports of 72 cases of policmyelitis, 54 paralytic. The cases were from 21 States.

118

325

423

of the 167 paralytic cases in 1962, 145 cases where county residence was reported are represented on the map on page 10. Six counties have reported 7 or more cases: Bexar (San Antonio), Dallas, Frio, Harris (Houston), Lubbock, and Webb (Laredo) Counties. Thirty-two Type I polioviruses have been isolated from the cases of these six counties.

The shaded portions of the map designate areas where known mass community programs with Type I oral polio vaccine were held. Guadalupe, Bexar, Frio, LaSalle, Webb, Zapata Counties carried out their mass feedings during late May and early June while the remaining counties vaccinated their citizens during late July and early August.

The Poliomyelitis Surveillance Unit has received individual case forms on 129 of the 167 paralytic cases through October 2. These cases are shown below by age group and history of immunization with inactivated vaccine. Seventy-nine percent of the 0-4 age group have been unvaccinated. As is indicated, 60% of all cases occurred in this age group.

 Polic (Camulated Weekly)
 Circush 39th Week for Past Five Years

 1962
 1961
 1960
 1959
 1958

 Paralytic
 471
 594
 1573
 4055
 1860

Paralytic Poliomyelitis by Age Groups and Vaccination
History Reported on PSU Forms, Texas, 1962
(Through October 2, 1962)

Age	D	oses of	Inacti	vated Va	ccine	ted from the	ходат изэд
Group	ov	<u>1-2V</u>	<u>3V</u>	<u>4+V</u>	Unk.	Total	Percent
			is:	rativotias			
0-4	60	15	1 1 1	1	0	77 93	59.7
5-9	18	1	3	5	0	27	20.9
10-14	6	1	1	0	c 0	8	6.2
15-19	4	1	0	0	ē 0	5	3.9
20-29	4	0	0	0	0	4	3.1
30-39	3	0	0	0	0	3	2.3
40+	_3_	_1_	0	0	1	5	100 3.9
TOTAL	98	19	5	୍ 6	_S 1	129	100.0
PERCENT			2	0		atoni	III
	e 76 6	1/ 0	2 0	,0 _		cuckysses s	
DOSES	76.6	14.8	3.9	4.7	4) -	100.0	

The histogram on page 11 shows the 127 cases in which the date of onset was recorded.

3. 1962 PARALYTIC CASES REPORTED TO PSU

Of the 471 cases of paralytic poliomyelitis reported through the week ending September 29, 450 had onset in 1962. The Poliomyelitis Surveillance Unit has received individual case forms on 359 of the 450 paralytic cases. The vaccination status of the 359 paralytic cases by age group is shown below.

Paralytic Poliomyelitis by Age Group And Vaccination History Reported on PSU Forms (Through October 1, 1962)

Age	D	oses of	Inactiv	ated Va	ccine	ine	moyVi
Group	OV	1-2V	<u>3V</u>	4+V	Unk.	Total	Percent
0-4	123	30	9	10	11	183	51.0
5-9	31	8	9	17	3	68	18.9
10-14	15	4	8	- 4/	LETEVA 1 S. S	32	8.9
15-19	10	2	4	2	0	18	5.0
20-29	16) en 5 ee	sv 13 sv	sű 0 3 s	setEWithi	ca 08 a Math Or	8.4
30-39	9	2	0	2	1	14	3.9
40+	11	.001.0	Selenb	anib l e	boita l Ma	w ows 56 14 26	3.9
ents of b	9730793	s been'r	ad-noisa				ayellets wi
TOTAL	215	the state of				nal (rozo 359 ai	The second second
PERCENT	gust Il Plation	no corre				higan had ons ving ipactiva	
DOSES	63.4	15.3	9.7	11.5	parelysis	10 91 100.0	of injection

Of the 172 cases with known vaccination history in the 0-4 age group, 123 (71.5 percent) had not received any poliomyelitis vaccinations

To date in 1962, the Poliomyelitis Surveillance Unit has received results of virological studies on 167 of the 359 paralytic cases. Poliovirus isolations have been made in 139 (83.2 percent) of the 167 cases. Of these, 110 are Type I and 29 are Type III poliovirus. Isolates have been reported from the following States.

Total Percent	UER	V-L-A	N.E	I-2V	¥0	GROID
	F	oliovir	us	0.5		44.41
State	O I	II	III	1.5	To	tal 4-0
27 20.9	0	C	Ç	i.	61	10-14
Alabama	0 2	့ ၀	0		9	2 01 21
Arizona	0 2 .	ું 0	ွဝ	9		4 ne ne :
Arkansas	1	0 0	0	0	glas C	30-39
California	4	0	7	· · ·	1:	+04)
Colorado	Antiques and	0	-0	manufacture.	Carrier Street	404
O. Georgia 1	· 2	o 6	1	19:	80	LATOT
Illinois	8	0	2		10	0
Kentucky	8	0	redig s	nta da	the sea	PERCENT
Louisiana	4	0	€. €	8.41	76.6	99300
Massachusetts	2	0	0			2
Michigan doidy o	d ssage V	10 t 12	l shows	a pagel	o maigo	The hist
Minnesota	4	0	Ô		led.	onset was recor
Mississippi	0	0	1			
Montana	1	0	Ō			
Nebraska	0	04	on dans	ES REPOR	240 013	3. 1962 PARALY
New York New York	yeldtia r	polion	oligia	gsq lo a	case	Of the 4
e PoliomyelicoidO	1962. Th	se <mark>o</mark> in	ao S ad	29, 450	redme	week ending Sep
654_400 IO YEL DO	SHIDI ASES	O LEMPA	VADEL L	recelve	E15E 3.	HO SAMPITITAASHO
Pennsylvania	256 4 13	20 073	de pois	DESTRUCTION A	This is	and the second
Tennessee	and on the	0	0	. W0	wn bel	age group is sh
	y Age Grou	d sidil	sinonye	lytic Po	Para	
Texas amvo Tu	495	y Ocpor	TOJ2LH	notiani	DOBY 5	Antenna have
Utah	(2101	, I 20do	Joüodge	oudT)		
West Virginia	1	0	0			
Wyoming	ccine	atOd Va	vij o sn.	10 898	OUT	20 July 1
Total Percent	Unic.	Vyo	VE	1-2V	70	gro 19
TOTAL	110	0	29	1-1 5-4	139	puis lessings
183 51.0	II	01		30	123	0-4
0.81 - 89	3	4.1	P	8	31	5-9
					76 7	2 5 6 5

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

A. Cases With Onset Within 30 Days of Vaccine (Inactivated)

During the two week period ending September 29, one case of poliomyelitis within 30 days following vaccination has been reported to the Poliomyelitis Surveillance Unit. This case, a 4 year old male from Oakland County, Michigan had onset of a paralytic illness on August 11, 10 days after receiving inactivated vaccine. There was no correlation between site of injection and site of paralysis.

Thus far in 1962, 12 under 30-day cases have been reported. Nine of these have had paralysis. There has been no correlation between site of injection and site of paralysis in any of these cases. Only 2 cases have occurred outside of epidemic areas.

B. Cases With Onset Within 30 Days of Vaccine (Oral)

Six cases of poliomyelitis, 5 paralytic, occurring among persons who had received oral polio vaccine within 30 days of onset of illness were reported to the Poliomyelitis Surveillance Unit on individual case forms within the past two weeks. The five paralytic cases were reported from Nebraska and had received Type III oral polio vaccine within the stated interval. Four of these cases were described in a State report on Nebraska in PSU Report No. 268, September 21, 1962. It should be noted that the inactivated vaccine status stated for case Nebraska 4 is in error and should read 4 doses of inactivated vaccine rather than 0.

A detailed listing of the six cases is shown below:

State	County	Age	Sex	<u>IPV</u>	Onset	Date Type Fed Fed	Onset Interval	Paralytic Status
New York	Erie	5	M	6	7-14	6-26 I	18	NP
Nebraska	Douglas	18	F	5	7-1	6-24 III	8	P
Nebraska	Douglas	51	M	0	7-16	6-24 III	28	P
Nebraska	Dodge	37	M	0	7-23	7-8 III	15	P
Nebraska	Phelps	48	F	4	8-16	7-28 III	19	P
Nebraska	Lincoln	57	M	0	8-22	8-5 III	17	P

Thus far in 1962, 36 cases have been submitted to the Poliomyelitis Surveillance Unit on case forms as occurring within 30 days of receiving oral polio vaccine. Nineteen of these have occurred outside of epidemic areas. Of these 19, 3 have occurred following Type I feeding (including the non-paralytic New York case reported in the present issue), one following Type II and 15 following Type III.

5. ENTEROVIRUS SURVEILLANCE

Dr. G.D. Hsiung, Director, Virus Diagnostic Laboratory, Yale University School of Medicine has reported 18 non-poliomyelitis enterovirus isolations on specimens obtained in July and August. Sixteen of these were shown to be ECHO 4 and accompanied illness ranging from a non-specific febrile illness to the aseptic-meningitis syndrome. The age range of the patients involved was from 6 months to 40 years with 13 of the 18 patients being 6 to 16 years of age.

Four ECHO 4 and one ECHO 9 isolates have been recovered by the viral laboratory of the Baylor University Medical Center in Dallas and reported by Dr. A.M. Behbehani. These viruses were found in patients becoming ill during the recent epidemics of poliomyelitis and aseptic meningitis in that city.

These reports have been incorporated into the non-poliomyelitis enterovirus reports from the States of Texas and Connecticut, and will appear in the enterovirus table in the next Poliomyelitis Surveillance Report.

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"B. Cases With Onset Within 30 Days of Vaccine (Oral) "

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n in	a Paralyt	Cases	districtly.	Dieto						
en eren	al Status	Interv			JSBNO.	VqI	Sex	Age	County	edejž
	aM	1.8	Ī	d≤ -∂	7-14	3	24	5	Eric	New York
	9.0	- 8	III	45-3	7-1	Ĉ.	31	18	Douglas	Nobraska
	direct re-	28	III	45-3	7-16	0	14	51	Douglas	Mebraska
	96.00000	1.5	III	8-5	7-23	0	M	37	Dodge	Nebraska
	The street of	61 -	III	35-28	8-16	Ĝ,	0 T	84	Phelps	Nebrasica
	q at the	17	III	2-8	3-22	0	M	57	Lincoln	Nebraska

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Figure 1

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1957, 1959 and 1961

April - December, by week

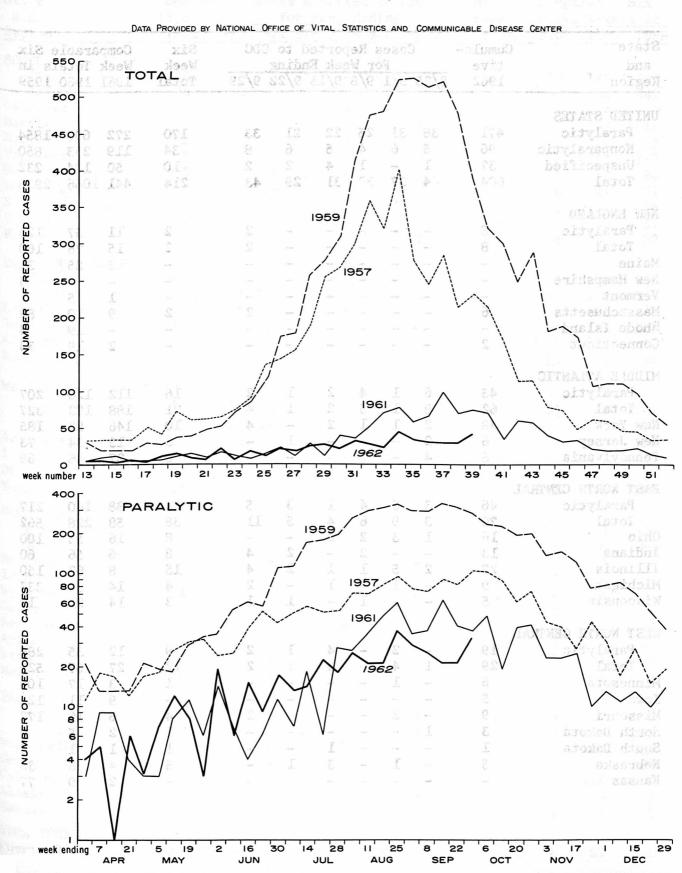


Table 1
TREND OF 1962 POLIOMYELITIS INCIDENCE

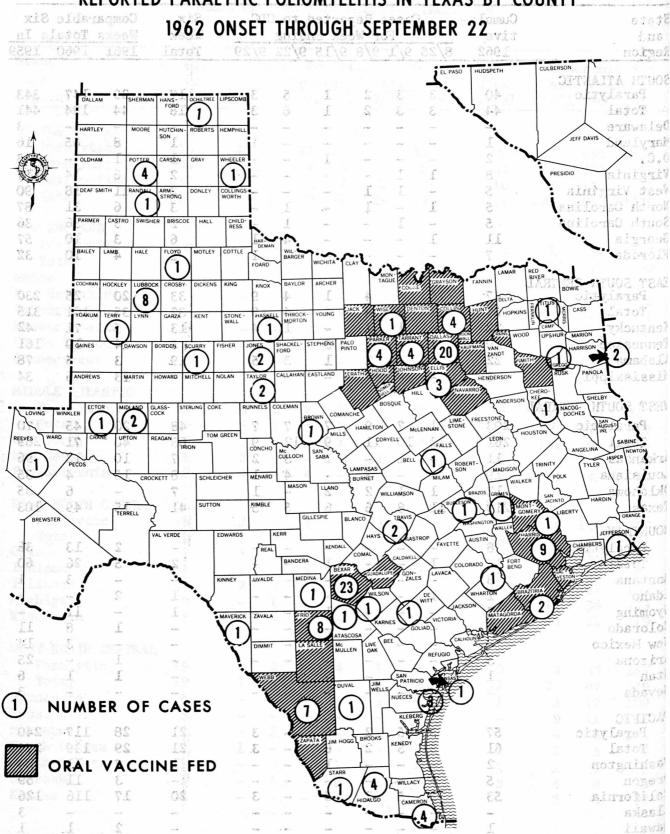
State and	Cumula- tive	. (porte	Six Week	Comparable Six Week Totals in				
Region	1962	For Week Ending 8/25 9/1 9/8 9/15 9/22 9/29				0/20	Total	1961 1960 1959			
Kegion	1302	0/23	3/1	3/0	9/13	9/ 22	3/ 43	TOCAL	1901	1900	1935
UNITED STATES											
Paralytic	471	38	31	25	22	21	33	170	272	699	1854
Nonparalytic	96	5	6	4	5	6	8	34	119	233	850
Unspecified	37	ì	_	1	4	2	2	10	50	134	232
Total	604	44	37	30	31	29	43	214		1066	2936
NEW ENGLAND											
Paralytic							^	•			700
Total	8	-	-	-	_	_	2	2	11	57	123
	8	_	-	-	-	-	2	2	15	78	160
Maine	-	-	•••	550	-		-	-	3	25	3]
New Hampshire	V -	_	,	700	-		-	-	-	-8	
Vermont	-	-	-	-	-	_	-	-	1	5]
Massachusetts	6	-	-	-	-	-	2	2	9	10	88
Rhode Island	-	_	-	-	-	-	-	-	-	19	2
Connecticut	2	_	-	-	-	-	-	-	2	19	33
MIDDLE ATLANTIC											
Paralytic	43	6	1	4	2	1	2	16	112	120	207
Total	62	8	ī	ં 5	2	ī	4	21	188	172	327
New York	48	2	ī	ĭ	2	_	4	10	146	92	185
New Jersey	6	2	્રે			1	_	3	15	34	73
Pennsylvania	8	4	_	4	_			8	27	46	69
EAST NORTH CENTRA	T .										
	46	3	8	4	1 .	2	_	24	- 20	140	07.5
Paralytic Total	70					3 5	5 11	24	38		217
Ohio		3 1	9 3	6 2	4 2		TT	38	58	228	562
Indiana	16	T				· -	_	8	16	55	100
	13	2	5	2 1	ī	2	4	. 8	,6	56	60
Illinois	27	2				2	4	15	. 8	62	150
Michigan	9	-	1	-	1	-	2	4	14	34	233
Wisconsin	5	_	À.	1		1	1	3	14	21	19
WEST NORTH CENTRA											
Paralytic	19	-	2	-	4	1	2 2	9	12	35	288
Total	29	1	2	-	4	1	2	12	27	67	529
Minnesota	6	-	1		_	-	- 4	.1	3	17	109
Iowa	5	_	_	_	- /		J-1 1	, / - -	9	11	125
Missouri	9	-	2	_	_	_	2	4	6	16	172
North Dakota	3	1	_	_	-7	_	\ - }'	i	2	5	_ ` `
South Dakota	ì	_	_	_	1	-		/ î \	$/\!\!/ar{ exttt{i}}$	ì	Ē
Nebraska	5		1	_	3	1	<u></u>	5	4	8	32
Kansas	•		-	_	•	-	550.62	F - 1	2	9	77

Table 1 (Continued)

State	Cumula-			s Rep	Six	rable					
and	tive					Week	Weeks Totals In				
Region	1962	8/25	9/1	9/8	9/15	9/22	9/29	Total	1961	1960	1959
SOUTH ATLANTIC											
Paralytic	40	3	3	2	1	5	3	17	29	147	343
Total	44	3	3	2	1	6	3	18	44	184	441
Delaware	-	_	_	_		_	-	_	_	-3-	3
Maryland	1	-	-	_	_	_	1	1	8	65	16
D.C.	2	_	_	_	1	_	_	ī	ĭ	- 00	3
Virginia	8	1	1	_	_			2	6	14	117
West Virginia	5	_	ī	1	_			2	ıĭ	18	90
North Carolina	5	1	_	ī	_	ı		3			87
South Carolina	5	_	1	_	_	i			6	31	
				-				2	5	36	36
Georgia	11	1	-	_	-	4	1	6	3	10	57
Florida	7	_	-	_	_	-	1	1	4	10	32
EAST SOUTH CENTRAL											
Paralytic	47	10	5	4	1	4	9	33	20	25	230
Total	57	11	5	4	4	4	9	37	35	101	315
Kentucky	22	6	1	1	-	1	4	13	5	71	42
Tennessee	10	1	_	1	3	_	_	5	14	19	161
Alabama	22	4	4	2	1	3	5	19	3	5	78
Mississippi	3	<u>.</u>		Ξ		_	`		13	6	34
							· -		13	· ·	34
VEST SOUTH CENTRAL											
Paralytic	203	11	7	9	7	7	7	48	20	45	170
Total	261	12	10	11	9	12	9	63	40	71	269
Arkansas	11		1	_	1	3	2	7	10	12	96
Louisiana	19	_	_	3	_	4	ī	8	15	4	35
Oklahoma	12	1	1	2	2	_	ī	7	15	6	35
Texas	219	11	8	6	6	5	5	41	15	49	103
	213		Ŭ	Ŭ		3	3	41	13	49	103
MOUNTAIN	_								- Andrew		3 1
Paralytic	8	-	_	-	_	-	-	-	2	13	36
Total	12	1	-	-	1	-	-	2	5	26	60
Montana	3	-	-		-	_	_	_	-	3	1
Idaho	2	1	-	-	_	-	_	1	2	_	-
yoming	2	-	-	_	1	ti: "-		1	_	11	-picani
Colorado	1	_	_	-	-	-		_	1	8	11
New Mexico	_	_	-	_	_	_		_	-	3	14
Arizona	3		_	_	_	_	_	_	1	Ľ	25
Utah	ì	-	_	_) 		_	ī	1	6
Nevada	_	_	-	- 1		_	-			_	3
PACIFIC	* 100										
Paralytic	57	5	5	2	6		2	21	28	110	240
	61	5	5	2	6	_	3			117	240
Total		5	3			_	3	21	29	139	273
Washington Description	2		-	-61-11	1	_	-	(1) - 1 b	7	11	84
regon	5	_	_	7	_	-	_	_	3	11	59
alifornia	53	5	5	2	5	-	3	20	17	116	126
laska	-	_		_	_	-	_	-	-	g * / -	3
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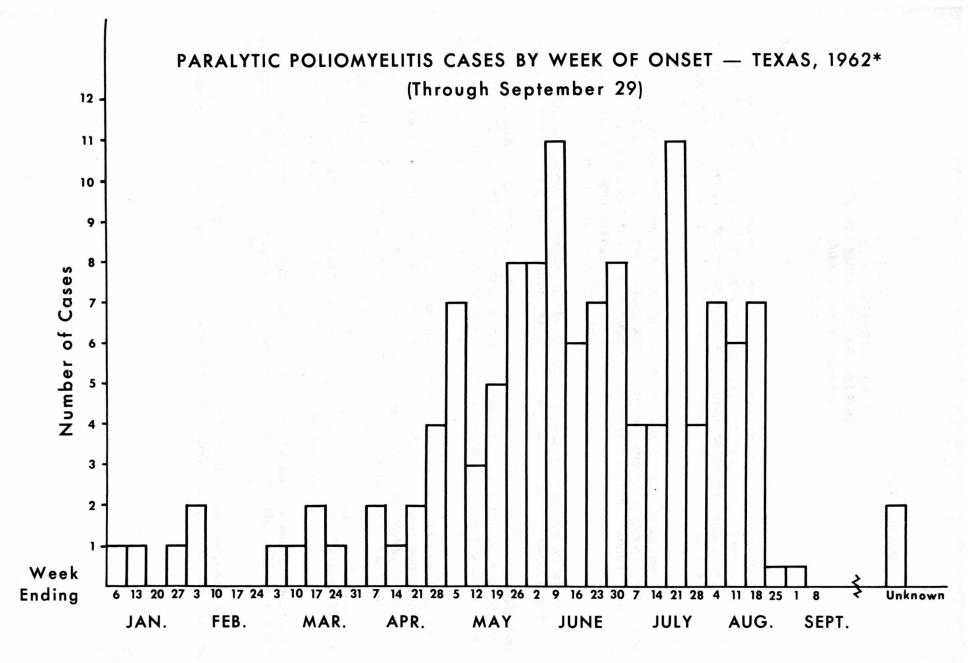
REPORTED PARALYTIC POLIOMYELITIS IN TEXAS BY COUNTY

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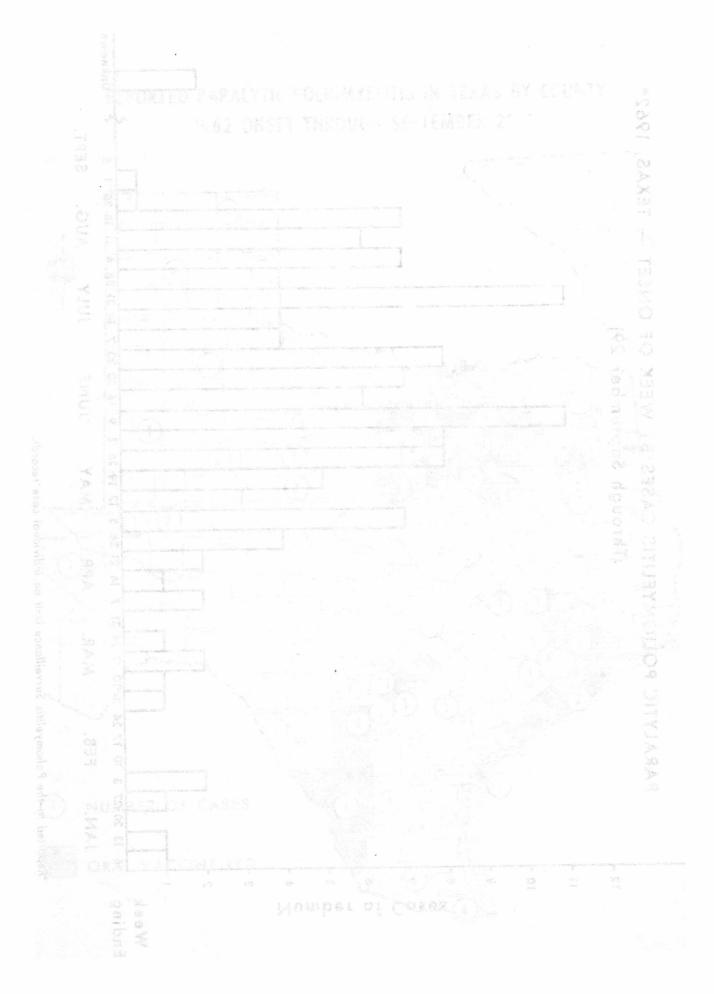


ERRITORY Merto Rico

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^{*}Reported to the Poliomyelitis Surveillance Unit on individual case records.



U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service Washington 25, D. C.

October 2, 1962

Dr. Luther L. Terry, Surgeon General of the Public Health Service, said today that the Special Advisory Committee on Oral Polio Vaccine has reiterated its recommendation that Type III oral polio vaccinations be continued for pre-school and school age children but not for adults at this time.

The recommendation was reached at a meeting of the Committee on September 15. The Committee, which met at the Service's National Institutes of Health, recommended that local communities proceed with planned mass vaccination campaigns using Types I and II of the oral vaccine for all members of the population and Type III for children.

The sequence of feedings, the Committee pointed out, is of minor significance as long as the interval of at least six weeks is maintained.

In endorsing this recommendation Dr. Terry said: "The recommendation that Type III be confined to children has raised the question of spread from vaccinated children to adults especially family members. The evidence does not indicate a hazard to adults exposed in this way."

The Committee considered two new cases reported as poliomyelitis to the Service from the State of Nebraska, both in adults. Three additional suspect cases, all children, are under investigation in Nebraska. While diagnostic information is incomplete, these cases present some features not typical of polio, and the committee could not reach a conclusion at this time as to a possible association with Type III vaccine. Additional diagnostic laboratory information will be gathered to assess the possibility of some other neurological disease that may simulate polio.

The Surgeon General said that the date of the next Committee meeting had not been set. "The meetings, of which this is the fifth, will continue," he said, "as long as there is a need for them."

Dr. Terry said that one of the Committee's continuing purposes is to provide guidance for a positive program of polio immunization for the nation.

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND SELEARE Public Health Service Washington 25, D. C.

October 2, 1962

Or. Luther L. Terry, Surgeon General of the Public Health Service, said today that the Special Advisory Committee on Oral Polic Vaccine has relterated its recommendation that Type III omal polic vaccinations be continued for pre-school and school age children but not for adults at this time.

The recommendation was reached at a meeting of the Committee on September 15. The Committee, which met at the Service's National Institutes of Health, recommended that local communities proceed with planned mass vaccination campaigns using Types I and II of the oral vaccine for all members of the population and Type III for children.

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